Module Code	19349006	Course Term	
Course Subject Name	Basic Ecology	Spring	
Course Tutor	Yukiko Ogino	The 4th Semester	
Credit	2	Taught Day	
Schools	School of Agriculture	WFD-2	
Taught Year	The 2nd year		
Campus	Ito campus		
Subject Area	Lecture		
Course Subject Classification	Common Basic Subjects	Wednesday, 2nd period (10:30-12:00)	
Course Requirements			
Course Requirement	None		
(Pre-requisite)			
Course Outline			
Students learn the basics of interactions between organisms, their environment, and each other.			
key words			
Ecosystem, environment, organisms, evolution			
Study Objectives (General)			
The goal of this course is to provide students with essential knowledge of ecology and environmental sciences to help			
understand the interactions that determine the distribution and abundance of organisms and as a foundation toward applying			
them to solve current environmental problems that affect biodiversity.			
Study Objectives (Specific) The course aims to achieve the following:			
The course aims to achieve the following:			
<ul> <li>A. Students lean the various ways organisms interact with their environment.</li> <li>B. Students gain an appreciation for the interconnectedness of ecological components and how various factors can have more</li> </ul>			
than one effect.			
C. Students learn the variety of spatial and temporal scales on which ecological phenomena occur.			
D. Students learn how ecological understanding can help us predict, manage, mitigate, and control of resources.			
E. Students learn how competition between organisms influences their abundances and diversity and how humans can influence			
the environment in positive and negative ways.			
Course Plan			
Tentative Weekly Schedule:			
1-2, Introduction to Ecology, Organisms and their environment			
3. Physical conditions and the availability of resources			
4-5. History of the theory of evolution and the current interpretation about the evolution			
6-7. Basic strategies to study the population dynamics, Intraspecific competition			
8. Evolution within species and speciation			
9-10. Species interactions, Interspecific competition, Biodiversity			
11. Predator-prey dynamics			
12. Ecological disturbance			
13-14. Human impacts on the the natural world and the intensification of agricultures, Approaches of conservation biology			
15. Summary			
Course Approaches	Lecture		
Textbooks	Begon, Townsend, and Harper (2006), Ecology: From Individuals to Ecosystems		
Reference Books	Sadava, Hillis, Heller, Berenbaum (2012) Life; The Science of Biology		
	Office: room 579, West5, Ito Campus		
Study consultation	Office Hours: by appointment		
Study consultation	Email: ogino@agr.kyushu-u.ac.jp		
(office hour)	Phone: 092-802-4766		
	PHONE: 092-802-4766		
Exams/Results	1. Attendance, in-class activities and oth	ers (50%)	
Evaluation Method	2. Report (50%)		
Others Contraction of			